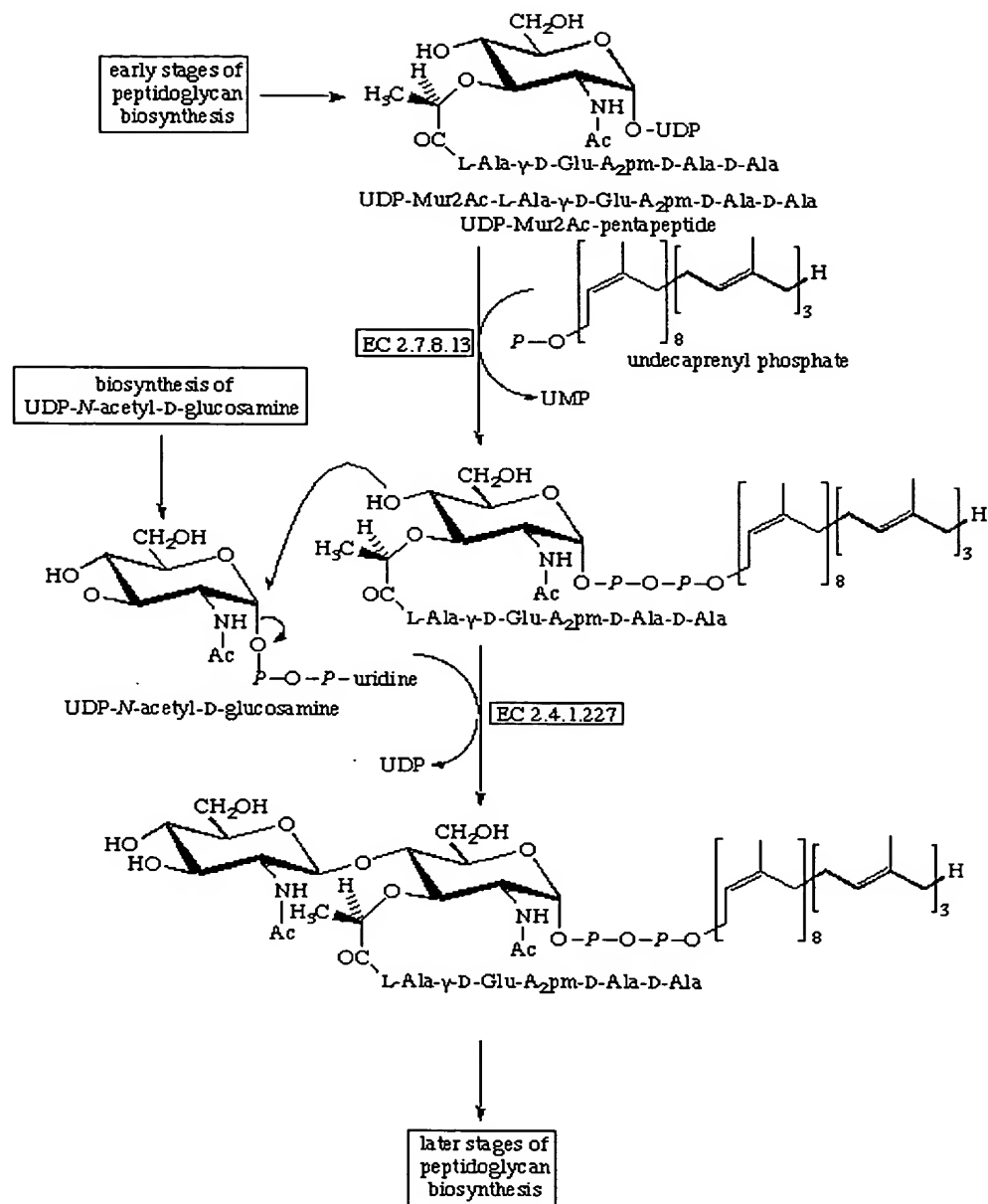


FIG.1



The chemical structure of the fluorescent probe 1 is shown. It features a fluorescein core. The xanthone moiety has a carboxylic acid group at position 3 and a hydroxyl group at position 2. The phenyl ring at position 1 is substituted with a phosphate group at position 4 and a hydroxyl group at position 3. The phosphate group is linked to a ribose sugar at its 5' position. The ribose sugar is further substituted with a nucleoside derivative at its 1' position. The nucleoside derivative consists of a pyrimidine ring with a carbonyl group at position 6 and a hydroxyl group at position 5. The pyrimidine ring is linked to the ribose sugar at its 1' position. The entire molecule is labeled with numbers 1 through 6, indicating specific atoms or groups.

FIG.3

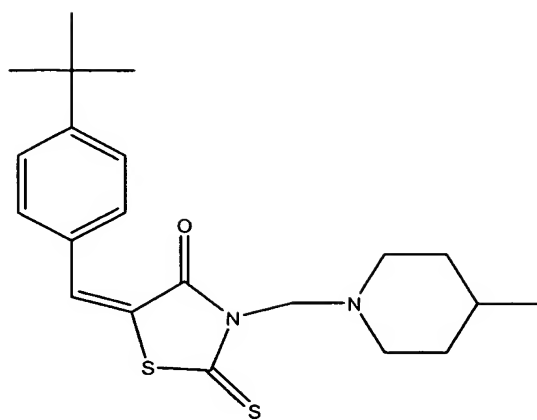


FIG.4

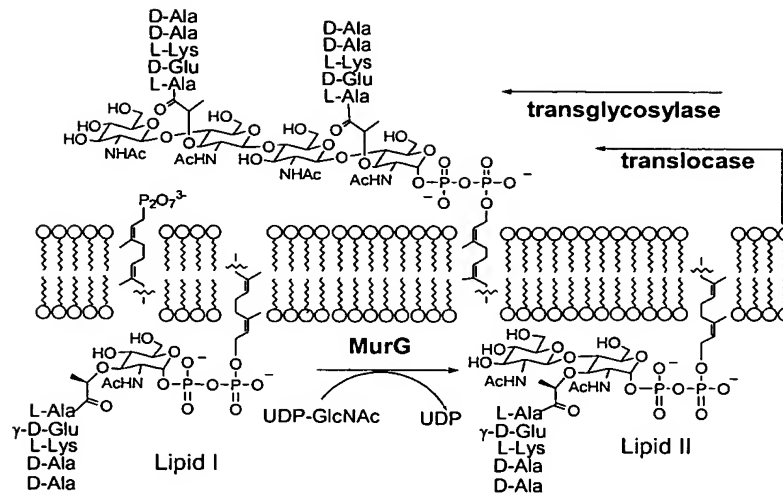
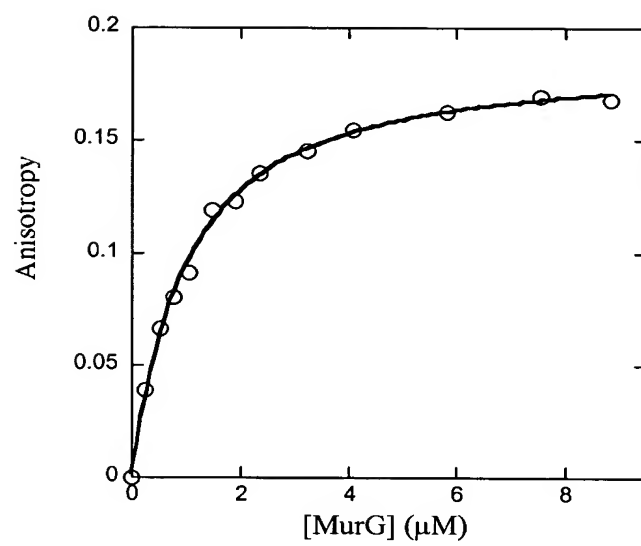


FIG.5



**FIG.6**



**FIG.7**

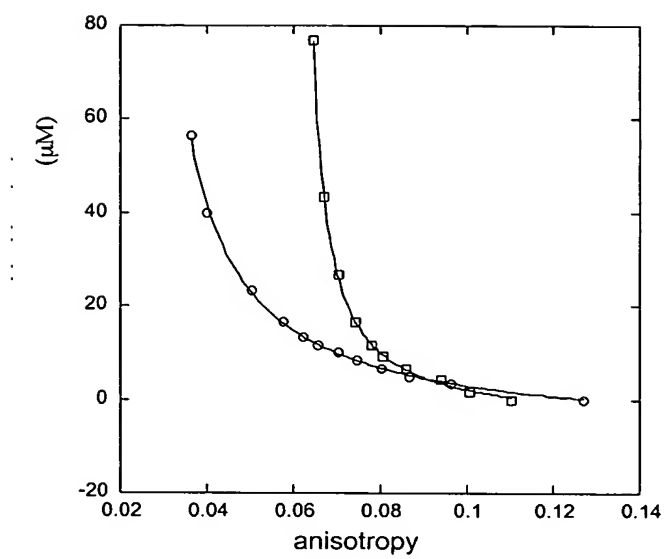


FIG.8

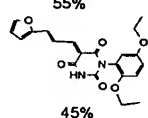
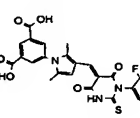
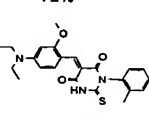
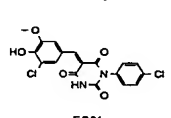
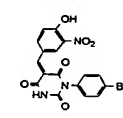
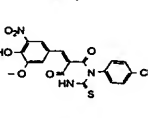
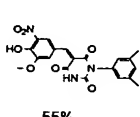
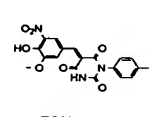
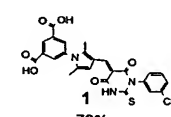
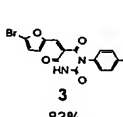
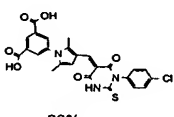
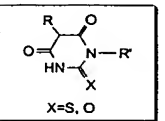
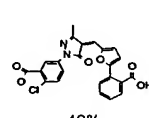
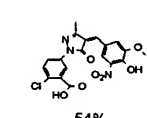
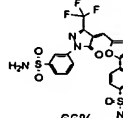
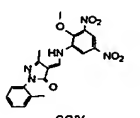
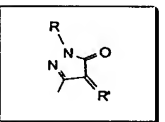
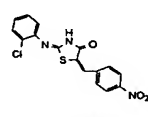
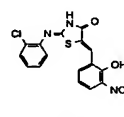
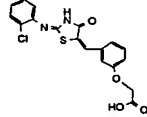
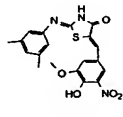
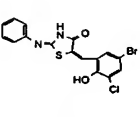
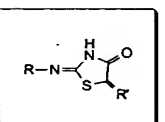
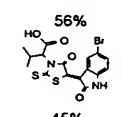
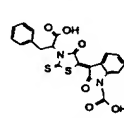
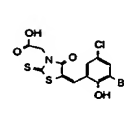
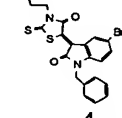
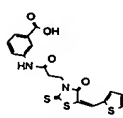
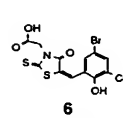
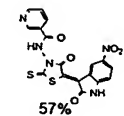
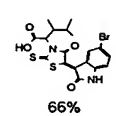
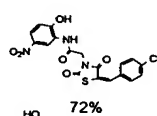
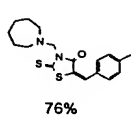
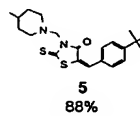
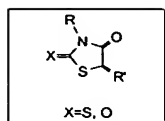




FIG.9

